



AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point

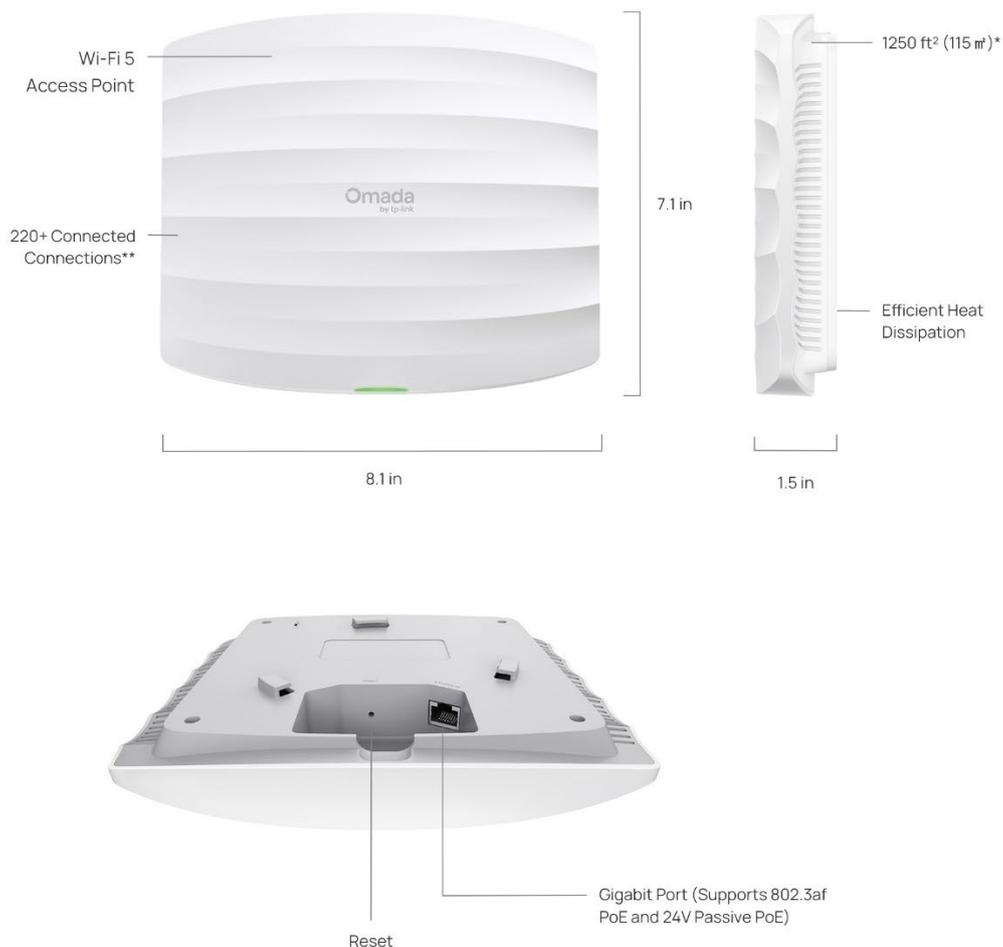
Model: EA225

Product Overview

The Omada AC1350 Wireless MU-MIMO Gigabit Ceiling Mount Access Point EAP225 is a proven choice for reliable wireless connectivity, delivering a fast, stable, and responsive dual-band Wi-Fi 5 experience.

- **Dual-Band Wi-Fi 5:** 867 Mbps on 5 GHz and 450 Mbps on 2.4 GHz[†]
- **1× Gigabit Port:** Ensures a high-speed connection to the wired network, eliminating a potential bottleneck.
- **Low Latency and Interference:** MU-MIMO, Band Steering, and Beamforming ensure high performance for your network.[‡]
- **Flexible Deployment and Easy Setup:** Supports both 802.3af PoE and 24V Passive PoE for flexible installation. Omada SDN for one-click setup.
- **Advanced Features:** Supports centralized management, mesh, and seamless roaming.[△]
- **More Connections and Wider Coverage:** Supports 220+ concurrent clients** and covers up to 1250 ft² (115 m²) * for reliable and extensive wireless connectivity.

Product Appearance



[†]Coverage value is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.

^{**}The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.

Feature Descriptions

Omada Wi-Fi 5 Technology

Wi-Fi 5 (802.11ac) leverages MU-MIMO, Beamforming, and Band Steering to deliver a stable and efficient wireless experience. MU-MIMO allows an access point to transmit data to multiple devices simultaneously, increasing overall throughput and reducing latency. Beamforming concentrates the wireless signal towards connected devices, creating stronger, more reliable connections over greater distances. Band Steering intelligently moves dual-band clients to the less congested 5 GHz band, optimizing network performance for clients.

Gigabit PoE Port for Optimized Wired Performance

Boost overall network efficiency with a high-performance Gigabit PoE port, delivering blazing-fast data speeds. Compatibility with 802.3af PoE and Passive PoE is ideal for flexible deployment.

Easy Setup via the Omada app, web browser, or SDN

The Omada SDN supports quick setup of EAP225 through automatic device identification and one-click adoption. Configure and manage on the go via the Omada app or web browser.

Boosted Network Security

EAP225 offers advanced security features, including a secure guest network with up to 16 SSIDs, SMS login for enhanced business authentication, WPA2 encryption for worry-free open public access, and rogue AP detection, ensuring safer and more reliable network experiences for both guests and business operations.

Cloud-Based Centralized Management

As part of Omada's unified SDN ecosystem, the EAP225 works harmoniously with Omada switches, gateways, and controllers. Businesses gain end-to-end visibility, automated optimization, zero-touch provisioning, and batch configuration— all managed from a single cloud interface.

Specifications

Hardware Specifications

| Item | Description | |
|-----------------|---|---|
| Wi-Fi Standards | 5 GHz: IEEE 802.11a/n/ac 2.4 GHz: IEEE 802.11b/g/n | |
| 802.11ac | Spatial Streams | <ul style="list-style-type: none"> 5 GHz: 2x2 Downlink MU-MIMO with 2 spatial streams |
| | Frequency Bands | 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C 5.725 to 5.850 GHz U-NII-3/ISM Note: Country-Specific Restriction Apply |
| | Bandwidth | 5 GHz: 20 MHz/40 MHz/80 MHz |
| | Wireless Data Rate | <ul style="list-style-type: none"> 5 GHz: 6.5 Mbps to 867 Mbps (MCS0-MCS9, NSS=1 to 2, VHT20/40/80/160) |
| | Radio Technology | OFDM (Orthogonal Frequency-Division Multiplexing) |
| | Modulation Type | 64-QAM, 16-QAM, QPSK, BPSK |
| | Frame Aggregation | <ul style="list-style-type: none"> A-MPDU (Aggregate MAC Protocol Data Unit) for Tx/Rx A-MSDU (Aggregate MAC Service Data Unit) for Tx/Rx |
| | Others | <ul style="list-style-type: none"> MRC (Maximal Ratio Combining) TxBF (Transmit Beamforming) WPA3 (Wi-Fi Protect Access 3) DFS (Dynamic Frequency Selection) CDD (Cycle Delay Diversity) CSD (Cycle Shift Diversity) STBC (Space-Time Block Coding) LDPC (Low-Density Parity-Check) |
| 802.11n | Spatial Streams | <ul style="list-style-type: none"> 2.4 GHz: 3x3 MIMO with 3 spatial streams 5 GHz: 2x2 MIMO with 2 spatial streams |
| | Frequency Bands | 2.400 to 2.4835 GHz ISM 5.150 to 5.250 GHz U-NII-1 5.250 to 5.350 GHz U-NII-2A 5.470 to 5.725 GHz U-NII-2C 5.725 to 5.850 GHz U-NII-3/ISM Note: Country-Specific Restriction Apply |
| | Bandwidth | 20 MHz/40 MHz |
| | Wireless Data Rate | <ul style="list-style-type: none"> 2.4 GHz: 6.5Mbps to 450 Mbps (MCS0-MCS7, NSS=1 to 3, HT20/40) 5 GHz: 6.5Mbps to 300 Mbps (MCS0-MCS7, NSS=1 to 2, HT20/40) |

| Item | Description | |
|----------------------------|---|---|
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| Antenna | Wi-Fi | <ul style="list-style-type: none"> 2.4 GHz: 3 × 4 dBi (peak gain), internal omnidirectional antennas 5 GHz: 2 × 5 dBi (peak gain), internal omnidirectional antennas <p>Note: The gains above are the single-antenna peak gains.</p> |
| Interfaces | <ul style="list-style-type: none"> 1 × 10M/100M/1000M Multigigabit Ethernet Port (RJ45); PoE in | |
| Memory | <ul style="list-style-type: none"> Flash: 128 Mbit DRAM: 1 Gbit | |
| Button | 1 × Reset button: Press the button for longer than 5 seconds to restore the device to factory settings. | |
| Indicator | 1 × dual-color system LED indicates on the front: <ul style="list-style-type: none"> Power-on status Firmware initialization or upgrade status Uplink service status Error status | |
| Reliability | MTBF (Mean Time between Failure) | NA |
| Power Supply | Input | <ul style="list-style-type: none"> 24V Passive POE or 802.3af POE |
| | Output | / |
| Power Consumption | <ul style="list-style-type: none"> 802.3af (PoE): EU: 9.7W, 2.4GHz radio 3×3, 5GHz radio 2×2. US: 12.6W, 2.4GHz radio 3×3, 5GHz radio 2×2. <p>Note: Actual power consumption may vary depending on the AP usage.</p> | |
| Surge/Lightning Protection | Ethernet Ports: ±4 kV | |
| ESD/EMP Protection | <ul style="list-style-type: none"> Air discharge: ±8 kV Contact discharge: ±4 kV <p>Note: ESD/EMP Protection means Electrostatic Discharge/Electromagnetic Pulse Protection independently.</p> | |

| Item | Description | |
|-------------|----------------------------|---|
| Tx Power | Maximum transmit power | CE (ERIP) <ul style="list-style-type: none"> • 2.4GHz: 20 dBm • 5GHz: 23 dBm in U-NII-1, 23 dBm in U-NII-2A, 27 dBm in U-NII-2C FCC (conducted power) <ul style="list-style-type: none"> • 2.4GHz: 24 dBm • 5GHz: 22 dBm in U-NII-1, 22 dBm in U-NII-3 Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations. |
| | Minimum transmit power | CE (ERIP) <ul style="list-style-type: none"> • 2.4GHz: 10 dBm • 5GHz: 9 dBm in U-NII-1, 9 dBm in U-NII-2A, 9 dBm in U-NII-2C FCC (conducted power) <ul style="list-style-type: none"> • 2.4GHz: 6 dBm • 5GHz: 4 dBm in U-NII-1, 4 dBm in U-NII-3 Note: MIMO combined power, excluding antenna gains. The actual transmit power depends on local laws and regulations. |
| | Adjustable power increment | 1 dB |
| Environment | Temperature | <ul style="list-style-type: none"> • Operating: 0°C to +40°C (32°F to +104°F) • Storage: -40°C to +70°C (-40°F to +158°F) |
| | Humidity | <ul style="list-style-type: none"> • Operating: 10% to 90% (non-condensing) • Storage: 5% to 90% (non-condensing) |
| | Altitude | <ul style="list-style-type: none"> • Storage: up to + 2000 m (6561feet) • Operating: up to + 2000 m (6561feet) |
| Unit | Dimensions (W×D×H) | <ul style="list-style-type: none"> • Main Unit: 205.4*181.6*37.1 mm (8.1× 7.1 × 1.5 in.) • Shipping Unit: 340*228*64 mm (13.4 × 9.0 × 2.5 in.) |
| | Weight | <ul style="list-style-type: none"> • Main Unit: 0.36 kg (0.793 lbs) • Mounting Bracket: 0.060 kg (0.132 lbs) • Shipping Unit: 0.96 kg (2.11 lbs) |
| | Mounting | <ul style="list-style-type: none"> • Ceiling /Wall Mounting (Kits included) |

Software Specifications

| Item | Description | |
|--------------------------------|---|--|
| Wireless Functions | Maximum number of BSSIDs | 16 (8 on each band) |
| | Maximum number of associated STAs | 228 |
| | Guest Network | Yes |
| | ACS (Automatic Channel Selection) | Yes |
| | Airtime Fairness | Yes |
| | Band Steering | Yes |
| | 802.11 Rate Control | Yes |
| | Rogue AP Detection | Yes |
| | URL Filtering | Yes |
| | WLAN Optimization | No |
| | Lock to AP | Yes |
| | Rate Limit | <ul style="list-style-type: none"> • SSID Rate Limit • Client Rate Limit |
| Load Balance | <ul style="list-style-type: none"> • Maximum Associated Clients • RSSI Threshold | |
| Roaming | <ul style="list-style-type: none"> • 802.11 k • 802.11v • 802.11r <p>*Note: Only support Layer 2 Roaming currently.</p> | |
| Multicast/Broadcast Management | <ul style="list-style-type: none"> • Multicast-to-Unicast Conversion • ARP-to-Unicast Conversation • Multicast Filtering | |
| QoS (Quality of Service) | <ul style="list-style-type: none"> • WMM (Wi-Fi Multimedia) • U-APSD (Unscheduled Automatic Power Save Delivery) | |
| Security and Authentication | ACL | |
| | MAC Filter | |
| | 802.1X Authentication | |
| | MAC-Based Authentication | |
| | <ul style="list-style-type: none"> • None • WPA/WPA2 -Personal • WPA/WPA2 -Enterprise | |
| | Radius Accounting | |

| Item | Description | |
|--------------------|---|---|
| | <ul style="list-style-type: none"> PPSK without Radius PPSK with Radius (Generic Radius with bound MAC) | |
| | Captive Portal | <ul style="list-style-type: none"> No Authentication Simple Password Hotspot (Voucher / Local User / SMS / RADIUS / Form Auth) RADIUS Server External Portal Server Pre-Authentication Access Authentication-Free Client |
| | EAP Types | <ul style="list-style-type: none"> EAP-TLS EAP-TTLS EAP-PEAP EAP-CHAP EAP-SIM EAP-AKA EAP-GTC EAP-FAST EAP-PEAP EAP-MD5 EAP-MSCHAPv2 PEAPv0 PEAPv1 |
| Management methods | Omada Controller | <ul style="list-style-type: none"> Omada Controller V6.2 and above Omada Essential V6.2 and above |
| | App | Omada App V5.1 and above |
| | Standalone Management | Yes |
| | Standalone Mesh | Yes |
| | SSH | Yes |
| | SNMP | v1, v2c, v3 |
| Operating Modes | AP | Yes |
| | Mesh | Yes |
| System Feature | System Log | Yes |
| | Reboot Schedule | Yes |
| | WLAN Schedule | Yes |
| | NTP (Network Time Protocol) | Yes |
| | Email Alerts | Yes |
| | Firmware Upgrade | Yes |
| | Restore & Backup | Yes |

| Item | Description | |
|------------------|--------------------------------------|---|
| | LED Control | Yes |
| Network Features | VLAN | <ul style="list-style-type: none"> • SSID VLAN • Dynamic VLAN • Management VLAN |
| | Static IP / DHCP Client | Yes |
| | IPv4/IPv6 | Yes |
| | LLDP (Link Layer Discovery Protocol) | Yes |
| | mDNS | Yes |
| | Tools | <ul style="list-style-type: none"> • Ping / Traceroute • Packet Capture • Terminal |

Standards Compliance and Certifications

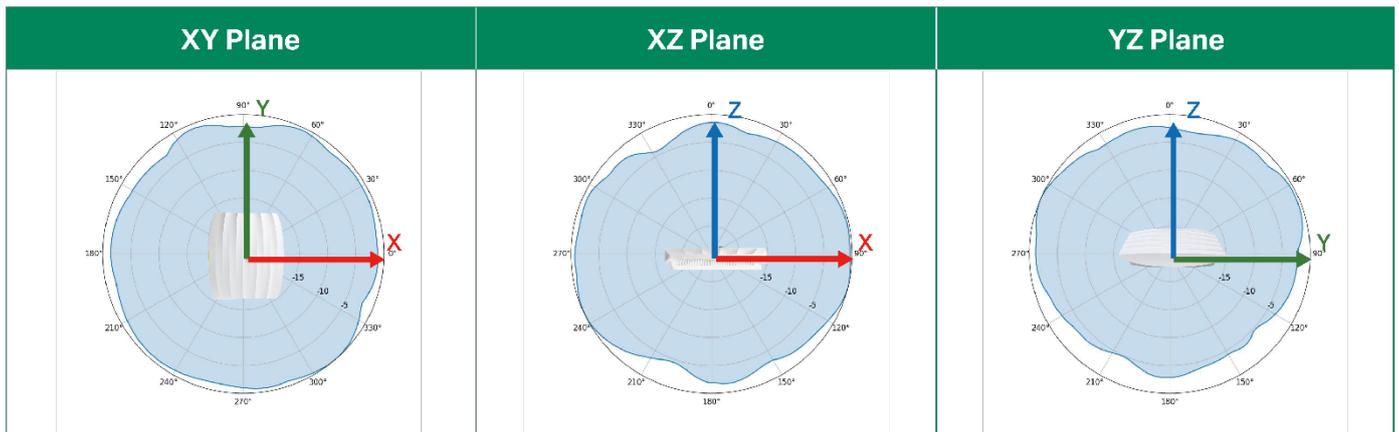
| Item | Category | Description |
|----------------------|---|---|
| Standards compliance | IEEE Standards | <ul style="list-style-type: none"> • IEEE 802.11a/n/ac • IEEE 802.11k/v/r • IEEE 802.1q • IEEE 802.3af • IEEE 802.3x |
| | Radio Standards | <ul style="list-style-type: none"> • RSS-247, RSS-Gen • ETSI EN 301 893, EN 62311& EN 50665 • FCC Part 15E、FCC Part 15C |
| | EMC standards | <ul style="list-style-type: none"> • EN 55032 • EN 55035 • ICES-003 • EN 301489-1 • EN 301489-17 • FCC Part 15B |
| | Safety Standards | <ul style="list-style-type: none"> • EN 62368-1 • IEC 62368-1 • IEC 60950-22 |
| | RoHS | <ul style="list-style-type: none"> • Directive 2011/65/EU, Directive (EU) 2015/863 • EN IEC 63000: 2018 |
| Certifications | <ul style="list-style-type: none"> • FCC/CE/ISED | |

RF Performance

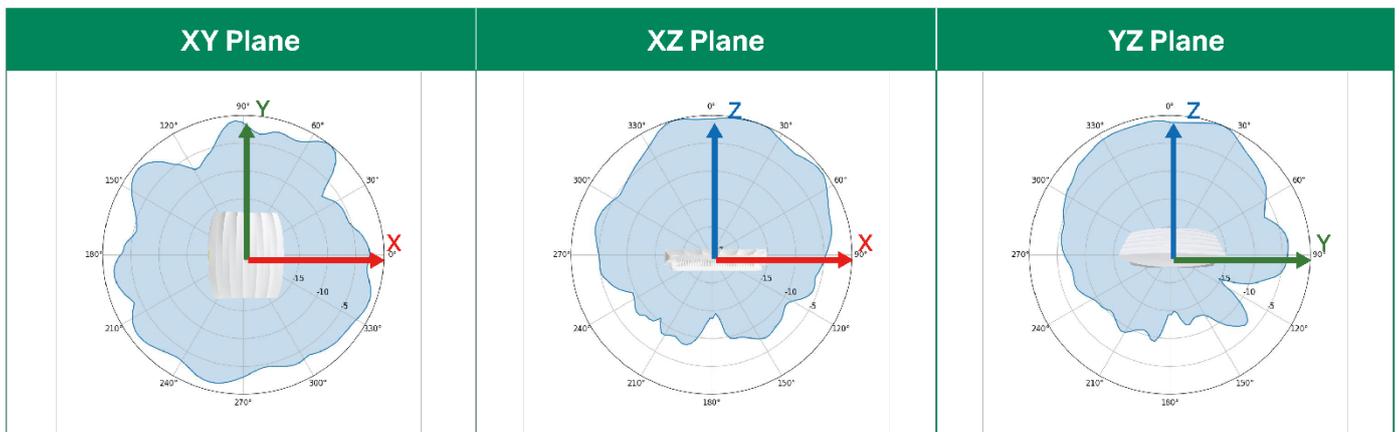
| Frequency Band | Wi-Fi Protocol & Bandwidth | MCS Index / Data Rate | EU/US Maximum Transmit Power (dBm) per transmit chain | Receiver Sensitivity (dBm) per receive chain |
|----------------|----------------------------|-----------------------|---|--|
| 2.4 GHz | 802.11n, HT20 | MCS0 | 10.5/16 | -91 |
| | | MCS7 | 10.5/16 | -74 |
| | 802.11n, HT40 | MCS0 | 10.5/16 | -89 |
| | | MCS7 | 10.5/16 | -72 |
| 5 GHz | 802.11n, HT20 | MCS0 | 20/16 | -93.5 |
| | | MCS7 | 20/16 | -75 |
| | 802.11n, HT40 | MCS0 | 20/16 | -91 |
| | | MCS7 | 20/16 | -72 |
| | 802.11ac, HT20 | MCS0 | 20/16 | -93.5 |
| | | MCS8 | 20/16 | -70 |
| | 802.11ac, HT40 | MCS0 | 21/16 | -91 |
| | | MCS9 | 21/16 | -65 |
| | 802.11ac, HT80 | MCS0 | 21/16 | -87.5 |
| | | MCS9 | 21/16 | -62 |

Antenna Radiation Patterns

2.4 GHz



5 GHz



Package Contents

| Item | Quantity |
|--------------------|----------|
| EAP225 | 1 |
| Installation Guide | 1 |
| Power Adapter | 1 |
| Mounting Kit | 1 |

Support Services

We are committed to providing you with comprehensive and reliable support services to ensure seamless experience with Omada products.

- Contact Support: <https://support.omadanetworks.com/#contact-us>
- Warranty Services: <https://www.omadanetworks.com/support/replacement-warranty/>

Revision History

| Version | Date | Description |
|---------|------------|------------------|
| V1.0 | 2026-01-21 | Initial release. |

[†]Maximum wireless signal rates are the physical rates derived from IEEE Standard 802.11 specifications. Actual wireless data throughput, wireless coverage, and connected devices are not guaranteed and will vary as a result of internet service provider factors, network conditions, client limitations, and environmental factors, including building materials, obstacles, volume and density of traffic, and client location.

[‡]MU-MIMO capability requires client devices that also support MU-MIMO.

*Coverage value is calculated based on laboratory testing. Actual coverage is not guaranteed and will vary as a result of client limitations and environmental factors.

**The actual capacity depends on the wireless environment and client traffic and is generally less than the maximum number of client connections.

[△]These features require the use of an Omada controller.

Some models featured in this guide may be unavailable in your country or region. Visit TP-Link website for local sales information: <https://www.omadanetworks.com>. Specifications are subject to change without notice.

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